



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

C45-18-5-PO
Job Sheet 182951



Part No: C45-18-5-PO

Job Qty: 50 ea

Part Name: Boss



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/6/18

Job Tracking No:

Due Date: 11/1/18

Created By: Patrick Lussier

Type: Stock

Description:

Note: DWG C45-18-5 Rev. 1 IPP Rev. A 18.09.05 Now outsource DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
100	Purchasing	50 pcs		11/1/18	0.00	0.00	Purchasing		OCT 24 2018
110	Packaging	50 pcs		11/1/18	0.00	0.00	Packaging2		OCT 24 2018
120	QC	50 pcs		11/1/18	0.00	0.00	QC6		38
130	Packaging	50 pcs		11/1/18	0.00	0.00	Packaging3		9-89
140	QC21-FG	50 Ea		11/1/18	0.00	0.00	QC21		OCT 26 2018

Part Op 100 - Issue PO to P.J. MACHINAGE P/O: 040952 MANUFACTURE C45-18-5 AS PER DWG - Certificate of Descriptions: conformity is required

SEP 10. 2018 x 50 2 ea

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
C45-18-5P	Boss	50 (1 ea)	100-Purchasing	5120953

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
100-Purchasing	C45-18-5P	50	0	0

Part Specifications

Specifications could not be found.

Plex 9/6/18 3:42 PM dart.Lussier.Patrick



Container No: S120955



Part: C45-18-5

Job No: 182951

Serial No/Batch: S120955

Revision: 1

Inspector:

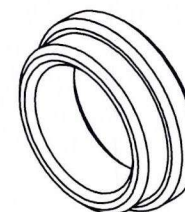
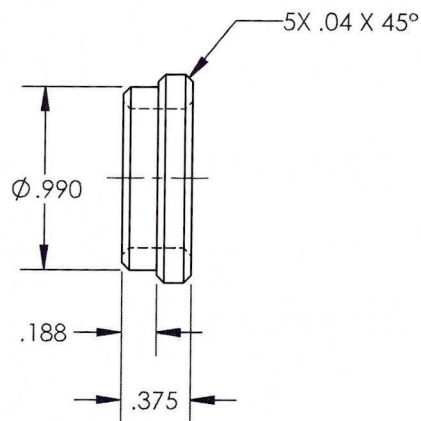
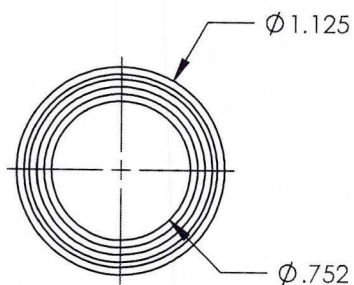
Exp Date:

Instructions:

Date: 10/24/18

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
1	AS DRAWN BY CANAM	11/6/2012	JAG



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 181283 MWS
180724

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS
			C45-18-5	1	BOSS	1018/1020	

 RED BARN MACHINE	
TITLE BOSS	
DWG NO. C45-18-5	
REV 1	
MAT'L 1018/1020	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± 5° .X ± .1	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: CANAM APPROVED: <i>D Weid</i> HEAT TREAT FINISH: SPEC:	
USED ON MODEL	
SCALE 1:1	DATE 12/4/2001
SHEET 1 OF 1	



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO040952**

Supplier: PJM001-VC
P.J. Machinage
1381 Rte Cite-Des-Jeunes
St-Lazare
QC
J7T 2B8
Phone: 450-455-0705

PO No: PO040952
PO Date: 9/10/18
Due Date: 11/5/18
Purchase Order
Revision:
Revision Date:
Ship-To Contact: Lussier, Patrick
Phone:

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments: *Revision*

Items

Line Item	Job	Part	Supplier Part No	Item No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	182940	C10-10-1P			Actuator Shaft	Firmed	-	11/5/18	25 pcs	0 pcs	25 pcs	\$64.60/pcs	\$1,615.00
2	182941	C10-9-4P			Latch Shaft Bushing	Firmed	-	11/5/18	50 pcs	0 pcs	50 pcs	\$18.77/pcs	\$938.50
3	182942	C10-6P			Trunnion	Firmed	-	11/5/18	33 pcs	0 pcs	33 pcs	\$72.39/pcs	\$2,388.87
4	182943	C10-8P			Trunnion Bushing	Firmed	-	11/5/18	40 pcs	0 pcs	40 pcs	\$22.80/pcs	\$912.00
5	182944	C45-4-2P			Trunnion, Load Beam	Firmed	-	11/5/18	20 Ea	0 Ea	20 Ea	\$56.53/Ea	\$1,130.60
6	182945	C45-13-1P			Keeper Bushing	Firmed	-	11/5/18	40 pcs	0 pcs	40 pcs	\$20.90/pcs	\$836.00
7	182946	C3-8-2-2P			Solenoid Drilling Jig C3 Hook	Firmed	-	11/5/18	62 pcs	0 pcs	62 pcs	\$9.98/pcs	\$618.76
8	182947	C2-3-3P			Latch Roller	Firmed	-	11/5/18	50 Ea	0 Ea	50 Ea	\$19.95/Ea	\$997.50
9	182948	C3-12-4P			Lock Roller	Firmed	-	11/5/18	60 pcs	0 pcs	60 pcs	\$18.86/pcs	\$1,131.60
10	182949	C3-3-7P			Link	Firmed	-	11/5/18	50 pcs	0 pcs	50 pcs	\$23.90/pcs	\$1,195.00
11	182950	PC250-775P			Lever Arm Bushing	Firmed	-	11/5/18	15 pcs	0 pcs	15 pcs	\$77.90/pcs	\$1,168.50
12	182951	C45-18-5P			Boss	Firmed	-	11/5/18	52 Ea	0 Ea	52 Ea	\$11.40/Ea	\$592.80
Grand Total:												\$13,525.13	

DAS
38
9-89



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040952

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE)

A012 CHEMICAL AND PHYSICAL TEST REPORTS

A016 PERSONNEL QUALIFICATION

A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENT

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

A handwritten signature in black ink, appearing to be "RL" or similar, located to the right of the Order Notes section.

Plex 10/23/18 3:53 PM dart.Lussier.Patrick

Shipping Order

12/09/2018

P.J. Machinage (9052 9470 Qc Inc).
1381, Rte Cité-Des-Jeunes,
St-Lazare, Qc
J7T 2B8

Tel. : 450 455-0705

Customer : 628

Order : 7029
Reference : PO : PO040952 S/O : 7029
Bid : 15074
Ship : Votre camion

Ship To

Dart Aerospace Ltd.
Accounts payable
1270 Aberdeen St
Hawkesbury , Ontario
K6A 1K7

Same

Fax: 1 613 632-5246

Item No.	Description	Qty	Qty. Delivere	B/O Qty
001	C45-4-2 Rev. 20 Trunnion Load Beam (J-7029-A)	20	<u>Ø</u>	<u>20</u>
002	C10-10-1 Rev. 3A Actuator Shaft (J-7029-B)	25	<u>Ø</u>	<u>25</u>
003	C45-13-1 Rev. 4A Keeper Bushing (J-7029-C)	40	<u>Ø</u>	<u>40</u>
004	C10-9-4 Rev. 2A Latch Shaft Bushing (J-7029-D)	50	<u>Ø</u>	<u>50</u>
005	C3-8-2-2 Rev. 3 Solenoid Pin Spacer J-7029-E)	60	<u>62</u> ✓	<u>Ø</u>
006	C2-3-3 Rev. 4A Latch Roller (J-7029-F)	50	<u>Ø</u>	<u>50</u>
007	C10-6 Rev. 3 Trunnion (J-7029-G)	30	<u>33</u> ✓	<u>Ø</u>
008	C3-12-4 Rev. 1A Lock Roller (J-7029-H)	60	<u>Ø</u>	<u>60</u>
009	C3-3-7 Rev. 4A Link (J-7029-I)	50	<u>Ø</u>	<u>50</u>
010	PC250-775 Rev. 1A (J-7029-J)	15	<u>Ø</u>	<u>15</u>
011	C45-18-5 Rev. 1 Boss (J-7029-K)	50	<u>52</u> ✓	<u>Ø</u>
012	C10-8 Rev. 1A Trunnion Bushing (J-7029-L)	40	<u>Ø</u>	<u>40</u>

P.J. Machinage retains ownership of all goods sold and other work-product delivered to or performed for its customer until full and complete payment of the underlying invoice, even in circumstances where the part to be machined or materials were provided by the customer. In cases where the part of materials belonged to the customer before it is remitted to P.J. Machinage for the purpose of performing work thereon, its delivery to P.J. Machinage shall entail a transfer of the underlying rights of ownership of the customer over said part or materials

Shipping : Votre Camion

Package No : _____

Merchandise Received: 24/10/2018

Ref. : _____

PJ Machinage

Certificate of conformance

Sold to:

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON, K6A 1K7

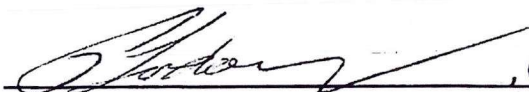
Supplier address:

PJ Machinage
1381 Route Cité-Des-Jeunes
St-Lazare, Qc, J7T 2B8

Purchase Order: PO040952 ✓

This is to certify that the below names items were inspected and/or tested to your drawings, specifications and purchase order. Objective evidence are shipped with the products and are on file to support the verifications and/or tests and can be made available on request, unless otherwise noted.

<u>Part Number</u>	<u>Quantity</u>	<u>Description</u>
C3-8-2-2 Rev.3 ✓	62 ✓	<u>Solenoid Pin</u>
C10-6 Rev.3 ✓	33 ✓	<u>Trunnion</u>
C45-18-5 Rev.1 ✓	52 ✓	<u>Boss</u>

 , October 23 , 2018

DATE: 01-11-2018
FORMAT No.: 001
PAGE No.:

CONTRÔLE DE QUALITÉ

QUANTITÉ: 62 NOM DE LA PIÈCE: C3- 8-2-2 Rev.3 Solenoid Spacer MATÉRIEL: SS303

DIMENSIONS DE DESSIN ET TOLERANCE									
PIÈCE No.	$\phi 0.760 \pm 0.005$	$\phi 0.714 \pm 0.001$	0.110 ± 0.002						
		pin $\phi 0.714$							
		pin $\phi 0.715$							
DIMENSIONS DE LA PIÈCE									
	$\phi 0.757$	$\phi 0.714 \pm 0$	0.108						
	$\phi 0.758$	$\phi 0.6$	0.107						
	$\phi 0.758$	0.6	0.107						
	$\phi 0.758$	0.6	0.108						
	$\phi 0.757$	0.6	0.108						
		pin $\phi 0.715$							
		n° 90							
		n° 90							
		n° 90							
		n° 90							
		n° 90							
	358	314	109						
	359	315	108						

OBSERVATION: _____

SIGNATURE RESPONSABLE: _____

Acciaierie Valbruna S.p.A.



35100 VICENZA (Italia) - Viale della scienza, 25 Z.I.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Cliente/Purchaser/Clien
VALBRUNA CANADA LTD
8724 HOLGATE CRESCENT
L5T 5Z1-MILTON, ONT L5T 5Z1-CAN

Produttore: ACCIAIERIE VALBRUNA S.P.A.
Hersteller/Le producteur

Oggetto Prove: - Annealed Cold Drawn
Prüfungszustand/Inspected/Finissage

Avviso di Spedizione: D-VI09026284
Lieferanweisung/Shipping instruction

Ordine nr: 911002485 Stock - Canada
Bestell/Nr. order/Commande

Tipo di Elaborazione: E+AOD
Erstherstellung/Erstherstellung process/Mode d'elaboration

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2005), 3.1

Certificato nr: MEST813190/2009/
Prüfung/Test/Essai

Conferma ordine nr. EI09006769
Werkz./Our Order/Ref. n°

Marchio di Fabbrica:
Zeichen des Werkherstellers
Tracé mark
Sigle du fabricant producteur

Punzone del Collaudatore:
Stempel des Werkzusammenfassenden
Inspector's stamp/Policeur de l'essayeur



Specifiche:
Anforderungen / Requirements / Exigences
VSI 0 303 HS A,CF
ASME SA320 2007 B8F 0
ASTM A370 2009A
QQ-S-764 B/2 303 A
(0) SEC.II PTA 2007 EDITION ADD. 2008a
(1) Chemical analysis only.

AMS 5640 U S30300 A
ASTM A314 2008 S30300
ASTM A582 2005 S30300 A

AMS 5640 U TYPE 1 A
ASTM A320 2008 B8F (1)
MIL-S-862 B/1 303

0Chemical analysis only.

Qualità: 303
Werkstoff/Grade/Matériau

Marca: MV188ZHS MAXIVAL
Markenbezeichnung/Brand/Marque

Punzonatura: 303
Kesselschweißung/Marking/Markage

Pos. nr. Pos. nr. N° de poste	Oggetto Objet Description Description	Dimensioni - In Abmessungen Dimensions Dimensions	Tolleranza Toleranz Tolérance	Lunghezza - In Länge Longueur	Colata Schmelze Coulée	Pezzi Stückzahl Pièces	Peso - LB Gewicht Poids	Lotto nr. Lose n° Lot n°
0010	Round	0,3750	484-08	147 / 147	420753		2.068	925800292

Sono state soddisfatte tutte le condizioni richieste
Die gestellten Anforderungen sind erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été fourni conforme aux exigences

Controllo antimiscelanza: OK
Vermischungsprüfung: spezifiziert durchgeführt
Annealing taking performed: OK
Controlle anmischungsfähig: i.a.a.

Controllo visivo e dimensionale: soddisfatta le esigenze:
Besichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

TEST ALLO STATO DI FORNITURA Test on delivery condition Prüfung auf lieferbarem Produkt test à l'état de fourniture Prueba sobre el material así como entregado									
TEST	Proveite/Proven Eigenschaften Long diam. Spec. Diam. Spec. Long diam. Spec. mm	°F	Snervamento Biegezug Yield Stress Rp 0,2% k s.i.	Snervamento Biegezug Yield Stress Rp 0,2% k s.i.	Resistenza Zugfestigkeit Tensile strength Rm k s.i.	Allungamento Bruchdehnung Elongation E 4d %	Strizione Gründierung Reduction of area RA %	Resilienza Kerbschlagarbeit Impact Value Foot lbs	Durezza Härte Hardness HB
Valori richiesti 1 Anforderungen/Requisits values Values demanded		min max							140 255
A	8,75	- 68 L	87		112	32	50		254

TEST	min	max
A Grain size for ASTM E112		6

Mechanical properties according to ASTM A370.

IX - longitudinal, Y - transversal, Q - Tangential/longitudinal

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata Test Schmelze/Condit	min 0,030 max 0,050	0,20 1,00	1,50 2,00	17,00 19,00	0,00 0,00	1,00 1,00	8,00 10,00	0,100 0,100	0,32 0,40	0,4000 0,4000	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %	-	-	-
420753	0,036	0,45	1,87	17,42	0,35	0,61	8,38	0,10	0,025	0,34	0,0040			

Produced without class I-II Ozone depleting substances.
Solution heat treated free from continuous carbide network.
Annealing temperature: 1940°F for 0.5 h/water.
Micro and macro etch test: OK
Material is DFARS Compliant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.
The Quality Management System is Certified acc. Pressure Equipment Directive (97/23/EC) Annex 1, s. 4.3 by TÜV and LLOYD'S

Q.C. Reviewed

Vicenza, 04/12/09 VCO008 (Mod. MCEI)	Il collaudatore di stabilimento / der Werkssachverständiger / Works Inspector / L'agent d'usage M. Rizzotto	Pagina - 1 di 1
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CLIENT:

JOB No.:

PLAN No.:

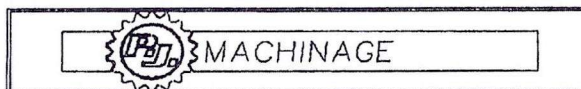
P.O.:

QUANTITÉ:

628
7039-9P8
P8080 952

33

NOM DE LA PIÈCE:



CONTRÔLE DE QUALITÉ

C18-6 REV.3 TRUNNION

MATÉRIEL:

DATE:

FORMAT No.:

PAGE No.:

001

4140

DIMENSIONS DE DESSIN ET TOLERANCE

PIÈCE No.	4.063	φ-1.50	φ-70	φ-80.8 ^{+0.02}	φ-1.001 ^{+0.005}	-238 ^{+0.005}	1.25	1.150 ^{+0.02}
1	4.063	φ-1.50	φ-70	φ-80.8	φ-1.001	-238	1.26	1.1485
5	4.063	φ-1.50	φ-70	φ-80.8	φ-1.001	-238	1.27	1.1485
15	4.063	φ-1.50	φ-70	φ-80.8	φ-1.001	-238	1.27	1.1487
20	4.063	φ-1.50	φ-70	φ-80.8	φ-1.001	-238	1.27	1.1487
25	4.063	φ-1.50	φ-70	φ-80.8	φ-1.001	-238	1.27	1.1487
33	4.063	φ-1.50	φ-70	φ-80.8	φ-1.001	-238	1.22	1.1487
	4.063	1.149	699	8085	1.001			

OBSERVATION:

SIGNATURE RESPONSABLE:

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

7029-G (1/2)

Page 01 of 02

Certification Date

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

21733

PART NUMBER/NUMÉRO DE PIÈCE

506264

Invoice Number
S243570

SOLD TO: ACIER ANICA STEEL INC.
VENDU À:

2082 AVE CHARTIER
DORVAL PQ H9P 1H2

SHIP TO:
EXPÉDIÉ À:

ACIER ANICA STEEL INC.

2082 AVENUE CHARTIER
DORVAL PQ H9P 1H2

Description: 4140/4142 HR ANN BAR ASTM A322
1-3/4 RD X 11' 8" / 8' 3"
HEAT: 4909652

ITEM: 506264

Line Total: 165 LB

Specifications:
ASTM A322 91

ASTM A304 96

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	NI	CR
0.41	0.9	0.014	0.026	0.24	0.17	0.18	0.98
MO	AL	V	N	CB	SN		
0.24	0.025	0.008	0.008	0.002	0.007		

RCPT: R781410

MILL: REPUBLIC TECHNOLOGIES INT'L

COUNTRY OF ORIGIN: USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN 179
-------------	---------	---------	--------	-----------------	------------------------

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

Recording of false, fictitious, or fraudulent statements in connection with test results is punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

Neil Berch

MANAGER, QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

1029-G (2/2)
737

Page 02 of 02

Certification Date

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

21733

PART NUMBER/NUMÉRO DE PIÈCE

506264

Invoice Number
S243570

SOLD TO: ACIER ANICA STEEL INC.
VENDU À:

2082 AVE CHARTIER
DORVAL PQ H9P 1H2

SHIP TO:
EXPÉDIÉ À:

ACIER ANICA STEEL INC.

2082 AVENUE CHARTIER
DORVAL PQ H9P 1H2

Description: 4140/4142 HR ANN BAR ASTM A322
1-3/4 RD X 11' 8" / 8' 3"

Line Total: 165 LB

HEAT: 4909652 ITEM: 506264

END-QUENCH HARDENABILITY (JOMINY - RC) IN

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
55	55	55	55	55	54	54	54	54	53	53	52	52	51	50
16	18	20	22	24	26	28	30	32						
49	47	46	44	43	42	41	40	39						

RAIN SIZE :7 -

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

REDUCTION RATIO: 19.0 TO 1
MELT SOURCE: RTI-FRANKLIN
MELT COUNTRY: USA
HOT ROLL SRCE: RTI-LACKAWANNA
HOT ROLL COUNTRY: USA
MELT METHOD: STRAND

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

NIL BROCHU


MANAGER, QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

Certificat de Conformité Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
331140	1

CLIENT / customer 236

P.J. MACHINAGE

1381 ROUTE LA CITÉ DES JEUNES

ST-LAZARRE

QC J7T 2B8

LIVRÉ À / shipped to:

P.J. MACHINAGE

1381 ROUTE LA CITÉ DES JEUNES

ST-LAZARRE

QC J7T 2B8

COMMANDE DU CLIENT customer po	CLASSIFICATION PIECE part classification	MATÉRIEL material	MAÎTRE D'OEUVRE prime contractor	PROGRAM
135401	N/A	4140		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications				
SEL HARDEN				
HARDEN AND TEMPER				
EXIGENCE / requirement SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed RÉSULTATS DE TESTS / results				
HARDNESS		42 - 46 HRC	11	45 - 46 HRC
(907)				
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
120	35	PIECES (87) PIECES		
		2 BOITE DE CARTON		

COMMENTAIRES / comments

APPROUVÉ par / Approved by:

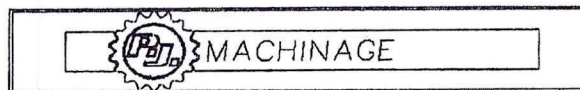
DATE: 2018-10-20

Pierre Piché
Chief Inspector



APPROUVÉ

CLIENT: G28
 JOB No.: 7029-K
 PLAN No.:
 P.O.: P0040952
 QUANTITÉ: 52



DATE: 01-10-2018
 FORMAT No.: 001
 PAGE No.:

CONTRÔLE DE QUALITÉ

NOM DE LA PIÈCE:

C45-12-5-REV: 1 B036

MATÉRIEL: 1018

DIMENSIONS DE DESSIN ET TOLERANCE									
PIÈCE No.	Ø 1.125	Ø 0.752	Ø 0.990	Ø 1.88	Ø 0.375				
DIMENSIONS DE LA PIÈCE									
	Ø 1.126	Ø 0.752	Ø 0.990	Ø 1.88	Ø 0.376				
	Ø 1.125	Ø 0.752	Ø 0.990	Ø 1.88	Ø 0.375				
	Ø 1.125	Ø 0.752	Ø 0.991	Ø 1.88	Ø 0.376				
	Ø 1.126	Ø 0.752	Ø 0.991	Ø 1.88	Ø 0.376				
	Ø 1.125	Ø 0.752	Ø 0.990	Ø 1.88	Ø 0.375				
	1.125	752	989	188	375				
	1.124	752	989	188	375				
	1.121	752	990	188	375				

OBSERVATION:

SIGNATURE RESPONSABLE:

4848

RHR-114

7029-K

51162

TRA-2804

Page 1/1

**GERDAU**

CA-ML-CAMBRIDGE
160 ORION PLACE
CAMBRIDGE, ON N1R 1R9
Canada

CERTIFIED MATERIAL TEST REPORT

CUSTOMER SHIP TO

LES ACIERS TRANSBEC 1997 LTEE
22 J F KENNEDY BLVD
SAINT-JEROME, QC J7Y 4B4
Canada

CUSTOMER BILL TO

LESACIERS TRANSBEC 1997 LTEE
4054 BOUL LE CORBUSIER
LAVAL, QC H7L 5R2
Canada

GRADE
GGMULTISHAPE / SIZE
Round Bar / 1 1/4" *RHR/14*DOCUMENT I
0000066269LENGTH
20'00"WEIGHT
4,804 LBHEAT / BATCH
52081985/03SALES ORDER
6255805/000170

CUSTOMER MATERIAL N°

SPECIFICATION / DATE or REVISION
ASME SA36, ASTM A529-14
ASTM A6-17, A36-14, A572-15
ASTM A709-17, AASHTO M270-15
CSA G40.20-13/G40.21-13

CUSTOMER PURCHASE ORDER NUMBER
OU50405FSQ2MPBILL OF LADING
1301-0000035369DATE
05/02/2018

CHEMICAL COMPOSITION

C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %	Mo %	V %	Nb %	CEgyA6
0.14	0.72	0.016	0.029	0.18	0.42	0.13	0.12	0.020	0.000	0.016	0.32

MECHANICAL PROPERTIES

Elong.

23.00
23.50

G/L
Inch
8.000
8.000

UTS
PSI
74813
74641

UTS
MPa
516
515

YS
PSI
55639
55492

YS
MPa
384
383

GEOMETRIC CHARACTERISTICS

R:R

21.30

COMMENTS / NOTES

This grade meets the requirements for the following grades:
ASTM Grades: A36; A529-50; A572-50; A709-36; A709-50
CSA Grades: 44W; 50W
AASHTO Grades: M270-36; M270-50
ASME Grades: SA36

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CMTR complies with EN 10204 3.1.

BHASKAR YALAMANCHILI
QUALITY DIRECTOR

Phone: (416) 769-1014 Email: Bhaskar.Yalamanchili@gerdau.com

LEONARDO NUNES
QUALITY ASSURANCE MGR

Phone: (905) 668-8811 EXT 4055 Email: Leonardo.Nunes@gerdau.com



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO041424

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO041424
PO Date: 10/23/18
Due Date: 10/31/18
**Purchase Order
Revision:**
Revision Date:
Ship-To Contact: Tsimiklis, Chrisoula
Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	184646	647.2011	Lower Strut Issue P/O: ANODIZE AS PER DWG Finish: HARD ANODIZE IAW MIL- A-8625 TYPE III, CLASS 2, COLOUR BLACK PRIME IAW MIL- P-23377J TYPE I CLASS N	Firmed	-	10/31/18	8 pcs	0 pcs	8 pcs	\$33.40/pcs	\$267.20

Grand Total: \$267.20

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/24/18 9:58 AM dart.tsimiklis.chrisoula